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# This Month in Search & Rescue

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August 2019

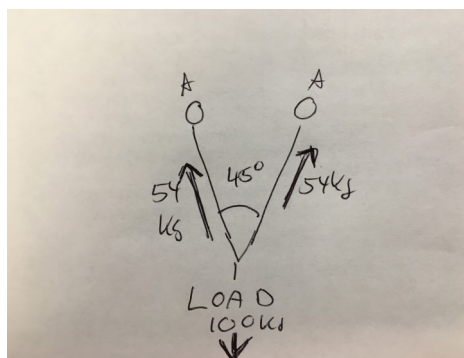
## Special points of interest:

- 8.1.2019 Training and Meeting SEACOM
- 8.3.2019 Tech Training W Stronghold
- 8.4.2019 K-9 Training with Pima and Pinal, Charleston
- 8.9.2019 Asst WX PD missing person
- 8.9. and 8.10 Swift Water Rucker Canyon
- 8.11.2019 Dehydrated Hiker Fairbanks
- 8.11.2019 Fall injury Carr Canyon lower falls
- 8.15.2019 Body recovery Palominas
- 8.16.2019 Rescue S of Fairbank injured subject
- 8.17 & 18 Basic SAR Academy
- 8.24.2019 Wilderness 1st Aid part 2
- 8.25.2019 K-9 Training Hwy 90 N side
- 8.31.2019 Mow Party E Stronghold

## 8.1.2019 Training & Meeting SEACOM



That would be a bowline



Eric S7, went over some of the knots the team must know for technical rescue applications as well as explaining the strengths of ropes and webbing to include the 10-1 Safety factor we utilize when setting up a system especially for hauling a load. Eric went over the vector forces applied to the ropes and anchor. The ideal angle in an anchor is preferably 45 degrees. On an 100 kg load the force on each anchor sling, is about 54% of the loads weight is being distributed to each anchor device. Therefore the greater the angle, the greater the force on the anchor. For instance at 90 degrees on the same load forces increase by 71%, and at an angle of 120 degrees, the force increases by 100% for each anchor. The angle on our anchors in a haul/lower system is ex-

tremely critical. Anchors are, if not the most critical component in a rope rescue system and could jeopardies the rescue if the anchors are not reliable. We need

to chose the best anchor, a BFR or BFT or multiple marginal anchors requiring back tie etc., and then rig the anchor keeping the force vectors in mind. Our land scape often does not provide adequate anchors, and we might have to

use a vehicle or multiple ATVs.



## 8.3.2019 Tech Training West Stronghold

This was another excellent training day for the team. The team set up a high angle rescue system using the Vortex including a high angle rope system. The goal and objective for this particular training was to increase everyone's experience with the technical rescue systems. Setting up the anchors for the tandem lower and raise, Vortex set up, with securing all legs and back tying. All team members were able to rotate through all the stations, learning the functions of each. They had to work the MPD, haul, reset, work as edge technicians and tender. We also worked on all the verbal commands to ensure a smooth operation. We have not worked on the whistle commands or the incorporation of them into the roll call. Setting up the Vortex and the rope



systems. Eric explaining the vector forces and the importance everything is in line to prevent any system collapse.

## Dr. Scuba Corner

“It is better to know knots and not need knots. Than not to know knots and need them.”





## Roll Call Procedure

### Technical Rescue Commands

<u>Verbal Command</u>	<u>Meaning</u>	<u>Response</u>	<u>Whistle Command</u>
<b>ROLL CALL</b>	Operations are about to begin.	Silence and being attentive.	One Long Blast
Orange/Mainline Ready?	Tender is read.	Orange/Mainline Ready!	None
Blue/Belay Line Ready?	Tender is read.	Blue/Belay Line Ready!	None
Safety Ready?	Systems checked and everything is ready.	Safety Ready!	None
Edge Attendants Ready?	Attendants Ready.	Attendant 1 Ready! Attendant 2 Ready!	None
Basket Attendant Ready?	Attendant Ready.	Basket Attendant Ready!	None
Tension the system!	Take up any slack in the system and prepare to lower.	System Tensioned!	None
Ready to Lower?	Everyone is Ready.	Lower Slowly!	Three Whistle Blasts
Stop!	All Systems Stop	Stop!	One Whistle Blast
Rig for Haul!	System changes to haul		None
<b>ROLL CALL</b>	Operations are about to begin.	Silence and being attentive.	One Long Blast
Orange/Mainline Ready?	Tender is read.	orange/Mainline Ready!	None
Blue/Belay Line Ready?	Tender is read.	Blue/Belay Line Ready!	None
Safety Ready?	Systems checked and everything is ready.	Safety Ready!	None
Edge Attendants Ready?		Attendant 1 Ready! Attendant 2 Ready!	None
Rescuer Ready to Haul?	Begin Hauling	Haul Slowly!	Two Whistle Blasts



## Tech Team



### 8.4.2019 Combined K-9 Training—Pima & Pinal County

On Sunday the K-9 team conducted a combine training with Pima and Pinal County on the north side of the Charleston Bridge. We worked at least 18 dogs from trailing, to area search and Human Remains Detection. All dogs did super and we learned a lot. The HRD dogs were exposed to some rather large quantity of source and it awesome to see their reaction to the extreme odor. Step by step introduction works best letting the dog experience the overwhelming odor. Every time we train we learn something new about our dogs, Learning to read them better, the minute changes in their body behavior, however minute it might be. We can work on specific problems, such as the Final Trained Response (FTR), recall, scent discrimination, cross trails, you name it, we will work on it. The list of training scenarios never ends, and the

reliability of our dogs depend on solid training. K-Oz working on a vehicle problem, locating the

source. Sophie with handler Deuce is work-



ing an hour old 3/4 mile trail, and yup she is right on the target. Our trail layer stayed out and gave an opportunity to the area search dog to also find him. By the time Z with handler Ashley worked this problem the trail layer was out for about 3.5 hours, and she did an awesome job. Pinal county team members worked on a cross trail with one of their trailing dogs





## K-9 continued



Dietz with handler Angie also working an aged area search scenario.



Franzi working her hour old scenario with cross trail. Found her subject and gave super proximity



Pima County HRD K-9 Charlie locating the buried source. Super job he did .



Iris with handler Jasmin working her hour old cross trail scenarios



Pinal County trailing K-9 working a super trail with back track, she did an awesome job.

The only one missing is Bruce with handler Denise. He also worked a cross trail problem.

## 8.4.2019 Assist SVPD

The team was activated for this call around 1500 hours. A young boy had been missing for quite some time and SVPD asked for SAR assistance. Several made it to the scene, others were en-route when the juvenile was located.



## Training Schedule

9.5.2019 Training and Meeting SEACOM  
1730 hours

9.7.2019 Helo Requals East Stronghold  
0900 hours, Ingress / Egress mandatory for  
all new personnel

9.8.2019 K-9 Training Hereford Rd

9.14.2019 Tech Training

9.15.2019 K-9 Training Rucker area of  
public access gate

9.21.2019 K-9 Training Miller or Hunter  
Canyon

9.28.2019 K-9 Training Battalion Way,  
Palominos

# September 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

# October 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

## Training Schedule

10.3.2019 Training and Meeting  
SEACOM 1730 hours

10.5.2019 Tech Training West  
Stronghold 0900 hrs

10.6.2019 K-9 Montezuma

10.12to 10.13 Overnighter East  
Stronghold Map and Compass,  
pack test, etc

10.19.2019 K-9 Fairbanks S side

10/23 to 10.27 Trailing Seminar  
possibly need some trail layers  
0600 hrs to about 1800 hrs eve-  
ry day



## 8.9-11. 2019 Busy weekend

What a busy weekend this has been for CCSO SAR. CCSO SAR was called around 1800 hrs on Friday 8/9/2019 to assist Willcox Police in the search for a missing 67 year old female, with medical problems. While this search was ongoing, SAR was called to Rucker Canyon Lake Campground for several missing persons, and a flash flood at the campground. SAR Swift water personnel and AZDPS Phoenix Ranger responded from Willcox to Rucker Canyon. The rest of the team continued

Ranger responded on Saturday morning to check on the remaining people. Geronimo and SAR members flew up the canyon, and located a male, female and two dogs. They were flown back to the Command Post and later given a ride to their home in Sierra Vista. AZDPS Tucson Ranger with SAR personnel flew further up the canyon and located one more person, who declined being rescued, stating he would wait until the road is fixed.



landing zone, and flown to the trauma center in Tucson for treatment.



searching for the female, who was located on I-10 near the Safford exit by a CCSO Deputy. Once her identity was confirmed, and it was confirmed she was the missing person, the rest of the team responded to Rucker Canyon as well.

The SAR team was only make it as far as mile post 12 on Rucker Canyon



On Sunday 8/11/2019 at approximately 1400 hours the SAR team was called out for a dehydrated female hiker on a trail approximately 1.5 miles north of the Fairbank Townsite. Before SAR arrival, a CCSO Deputy was able to drive to the female and drive her out to the trailhead, where she was turned over to medics.

Road due to heavy flooding. Phoenix Ranger located five subjects stranded by flooding. Two teenage females were hoisted into the helicopter and flown to the waiting SAR team. They were checked and then transported to Elfrida and turned over to family members. The three people indicated they were safe and could stay the night, but requested to be checked on Saturday morning.

The SAR team along with CCSO helicopter "Geronimo" and AZDPS Tucson

Family members were driven out by SAR personnel.

At about 1500 hours SAR was called to Carr Canyon waterfall for a 39 year old male, who had fallen about 30 feet, sustaining a broken shoulder and head injury. The Fry Fire Dept. Technical Rescue also responded to this call. The male was located approximately 200 yards from the trailhead and was able to hike out. He was then turned over to medics and transported to a





## From the mother.



### Rucker Lake Restoration Project

Saturday at 6:32 PM · 🌐

My daughter **Savannah Romero** and her friend Kendra were air lifted to safety by the Search and Rescue team last night in Rucker Canyon. The creek, washes and bridges flooded within minutes causing extreme destruction to the area.

Our drive to Rucker from HWY 80 and witnessing the damage first hand was traumatizing last night. The sound of the raging waters in two of the bridges still plays loud and clear in my mind.

The torture/fear of the unknown lasted approximately 4 hours. We were finally informed that contact had been made with the girls and that they were safe.

A mother's worse nightmare indeed.

THANK YOU LORD for protecting and watching over us. We are blessed beyond words.

THANK YOU Bro Ernie and Tricia Romero for driving me and being by my side the entire time.  
THANK YOU to Cochise County Sheriff's Department & to Search and Rescue team for bringing my daughter and her friend to safety.  
THANK YOU **Vanessa Romero** for giving me my strength during difficult times.

THANK YOU Larry 🙏 (a gentlemen who watched the girls from across the bridge the entire time and gave them food and water) You are an angel.

Here's a video of the dam/waterfall at Rucker. It's extremely difficult for me to watch this video BTW....

I'm now curious if a lake would help diminish the destruction that a flood can cause in creeks, washes and bridges .... is it a safety issue now?





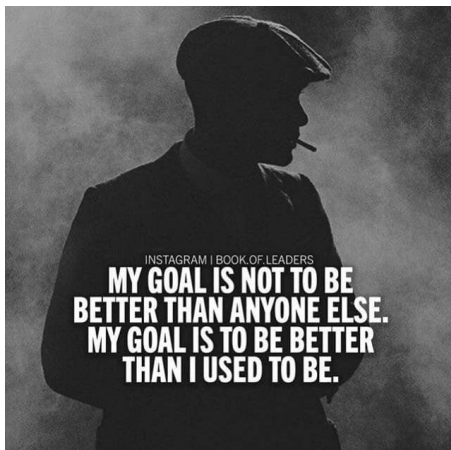
## EMT Training



### Cochise County Sheriff's Office Search & Rescue

Posted by David Noland  
Yesterday at 10:16 PM · 🌐

Over the past few weeks SAR EMTS attended advanced training starting IV's and this past Monday advanced airways called I-Gel supraglottic airways. Thanks Gina Flores, Pearce Sunsites Fire Dept and Canyon Vista Medical Center for the training. This training will allow us to better treat our patients who need advanced treatment during missions.



*“Find a group of people, who challenge and inspire you, spend a lot of time with them, and it will change your life.”*

Amy Poehler

### Dr. Scuba Corner

*“A comfort zone is the most dangerous area anyone can stay in. It is a place of no growth and no challenges.”*

Brian Cagneey

*In SAR, especially when involved in technical rescue, we have to challenge ourselves without compromising safety. In order to help those in need, we have to step out of our comfort zone and do what is required. We challenge you to work on your knots, work on understanding systems and equipment as well as understanding all other aspects of SAR.*

## K-9 Training & Body Recovery

.We did some impromptu K-9 training on Thursday. We were working on an aged trail, with aged start for Bruce. While that trail aged, we worked area search scenarios with Z and handler Ashley.

While en-route to training I saw a dead body call on the screen in the greater Palominas area near the border. We knew we would get a body recovery, it just depended when.

David informed me about the assist around 1615 hrs and we headed out to the location. We were able to utilize a side by side to get extremely close to the location. This was Ashley's first dead body recovery and she held up pretty darn well. Thank goodness I carry those extra heavy duty disaster pouches, we needed it. This was a female illegal immigrant who succumbed to the elements within one mile of entering the US. No one knows how many

more have died in our county along the International Border or in



our rugged mountain

terrain. Body recoveries are not easy .

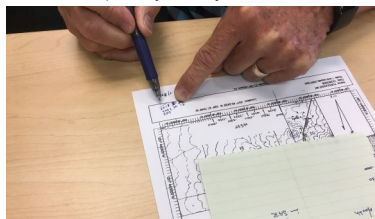
## 8.16.2019 Injured subject South of Fairbank

The team was activated for this rescue mission around 1000 hrs. A subject got his vehicle stuck off Schefflin Monument Rd and got it stuck in a wash on Thursday. He began walking and got lost. The call indicated the subject was injured and bleeding profusely. One of the Tomsbtone Marshall's unit located the vehicle and some

time later also the subject. Geronimo was dispatched to this call as well and was almost on scene, when we were advised the subject was not injured and mobile. The TMO unit walked the subject out and transported him to the Marshall's Office, where he was checked out.

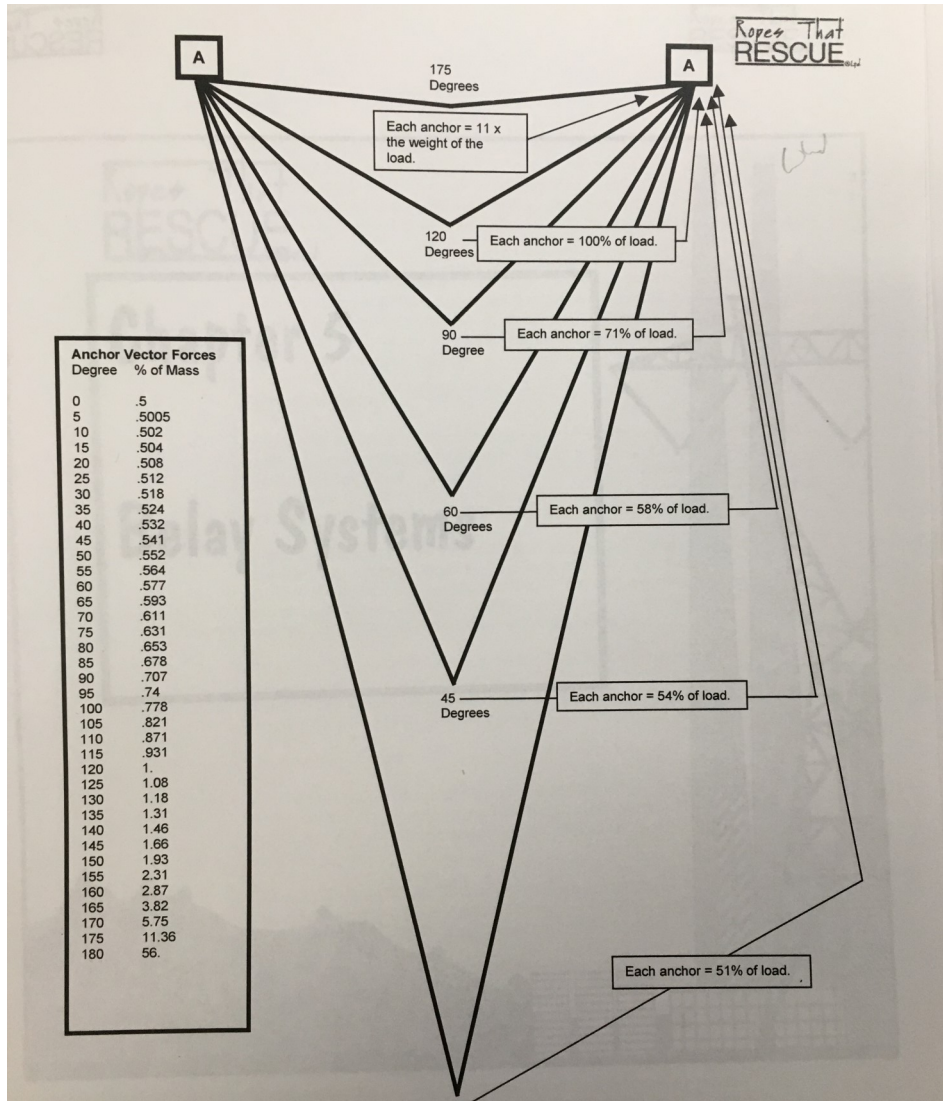
## 8.17 & 18 Basic SAR Academy

Over this weekend we taught a two day basic SAR Academy class. This is a mandatory training for all new members. We had 24 participants; Cochise County, Santa Cruz County and Pima County. Several of our team members were able to get some of their SAR Tech II items checked off during this academy as well. Such as their 24 hour pack. Great job by everyone.

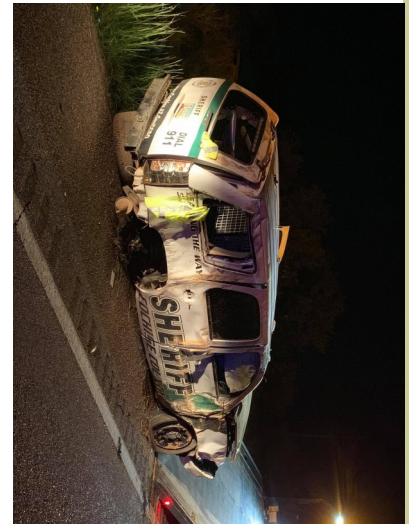




## Anchors



It can happen to any of us. Remember the subject got himself / herself into the predicament, and unless it is a **CLEAR** life or death situation we should not try



to attempt to get injured ourselves. Some of our calls are at the opposite end of the county and we try to get there as fast as possible. However, if we wreck on the way we help no one. Even in a fully marked emergency vehicle, we still have to obey all traffic laws



The mow party participants. Many hands made for easy work. Thankyou every one.





# TEN ESSENTIALS

**'Be prepared'!** Just like every Scout every camper should be equipped with these ten essentials on any camping trip:

## Contingency & First Aid Kit 1

"Contingencies" (someone forgot a flashlight, wet weather makes fire building difficult, etc.) are more common than emergencies. A first-aid kit supplemented with a spare flashlight, spare whistle, trail food, matches, and fire starters is your 'air bag' – essential but you hope, (like the air bag in your car), you'll never need it.



First Aid Kit Bag  
+ Spare Whistle  
+ Spare Flashlight  
+ Trail Food  
+ Matches and Fire Starters

## Flashlight 2

A sturdy headlamp is better than a hand-held flashlight. LED lights (one with a brightness of 35 lumens is more than adequate) use less power and batteries last longer.



## Trail Food 3

Carry a few granola bars, protein bars, trail mix, or other compact, high-energy, high nutrition food (avoid sugar-based snacks). Carry a couple of additional nutrition bars in the Contingency & First Aid Kit.



## Matches & Fire Starters 4

There are any number of fire starter alternatives; many can be made at home. If you need to get a fire going in difficult circumstances, you want a proved fire starter and matches in a waterproof container.



## Sun Protection 5

In direct sun in hot weather sunburn and some level of heat exhaustion are common. Staying hydrated, using sunscreen and wearing a broad-brimmed hat are important.



## Whistle 6

If you become lost or separated stay put and use a whistle. Signal by blowing three blasts (a well-known emergency signal).

Spend a little more on one designed to signal over distances; cheap insurance should you need it.



## Rain Gear 7

Staying warm is crucial, and it's hard to stay warm if you are wet.

Rain pants and a rain jacket are essential. Ponchos restrict movement and don't trap warmth near your body.



## Water 8

An adequately sized (32 ounces), wide-mouthed rugged water bottle. In dry or hot climates carry two. Include some simple way to purify water, tablets or other chemical treatments don't take up much space.



## Map & Compass 9

A simple base-plate compass is best.

Buy a reliable brand rather than a cheap knock-off, it's worth spending a bit more for an accurate compass.



## Pocket Knife 10

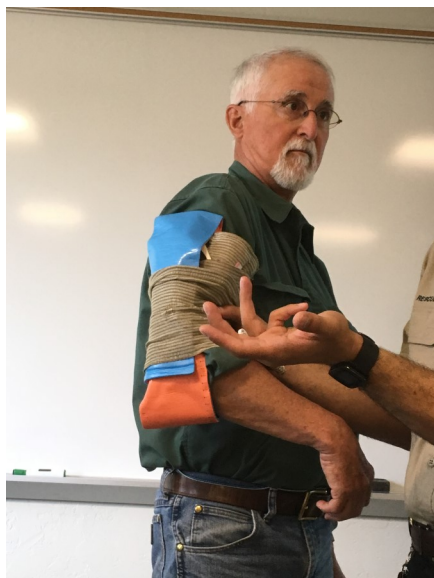
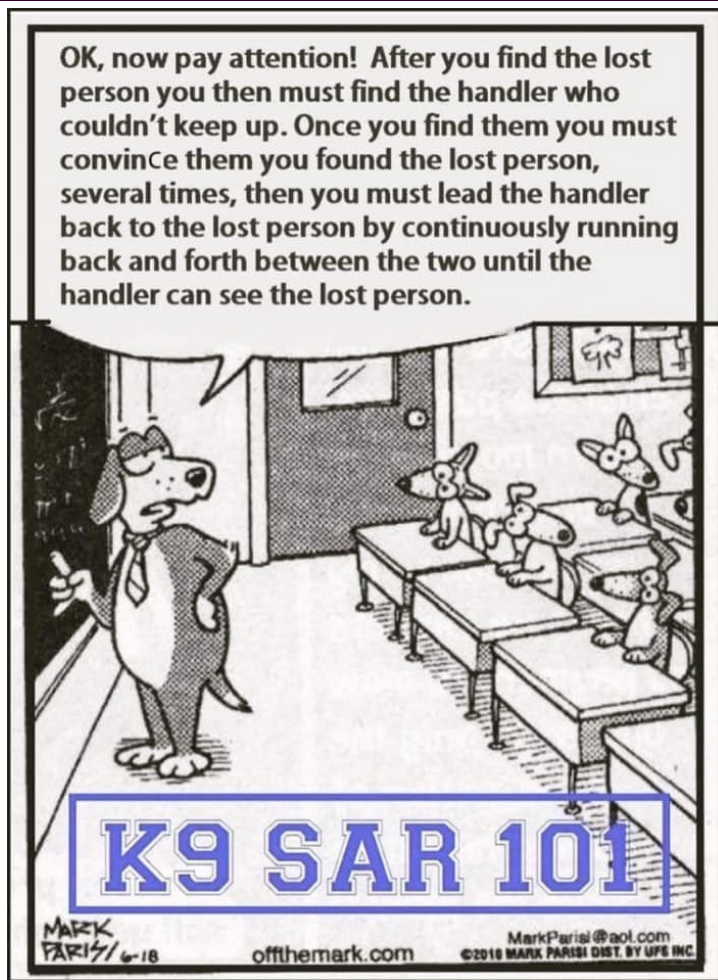
A sturdy, well-made simple combination knife is ideal for camping.



SCOUTMASTERCG.com



## Ist Aid Continued



The Wilderness Ist Aid continued this week with lots of practical applications. The Ist aid portion was completed, the rest of the team, WFER and WEMT continue on with lots more class room and practicals and written test.